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INDEX TO AMERICAN BOTANICAL LITERATURE

1916

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Allard, H. A. Distribution of the virus of the mosaic disease in capsules, filaments, anthers, and pistils of affected tobacco plants.

Jour. Agr. Research **5**: 251-256. *pl.* 23. 8 N 1915.

Arthur, J. C. New species of Uredineae—IX. Bull. Torrey Club **42**: 585-593. 13 N 1915.

Includes 11 new species in *Uropyxis* (1), *Uromyces* (2), *Puccinia* (6), *Uredo* (1), and *Aecidium* (1).

Bailey, W. W. Something about goldenrods. Am. Bot. **21**: 84, 85. Au 1915.

Ball, C. R. Notes on North American willows—III. Bot. Gaz. **60**: 391-399. 15 N 1915.

Barrus, M. F. An athracnose-resistant red kidney bean. Phytopathology **5**: 303-311. *f.* 1-4. N 1915.

Benedict, R. C. Does *Ophioglossum vulgatum* require ten years from spore to first green leaf? Am. Fern Jour. **5**: 115-117. D 1915.

Bicknell, E. P. The ferns and flowering plants of Nantucket—XVI. Bull. Torrey Club **42**: 549-570. 13 N 1915.

Includes *Solidago aestivalis* sp. nov.

Blake, S. F. Four new Heterospermas. Jour. Bot. **53**: 322-324. N 1915.

From South America and the West Indies.

Blakeslee, A. F. Sexual reactions between hermaphroditic and dioecious mucors. Biol. Bull. **29**: 87-102. *pl.* 1-3. Au 1915. [Illust.]

- Blakeslee, A. F.** Zygosporcs and *Rhizopus* for class use. Science II. 42: 768-770. 26 N 1915.
- Blodgett, F. H.** Morphology of the *Lemna* frond. Bot. Gaz. 60: 383-390. pl. 14+f. 1. 15 N 1915.
- Boncquet, P. A., & Hartung, W. J.** The comparative effect upon sugar beets of *Eutettix tenella* Baker from wild plants and from curly top beets. Phytopathology 5: 348, 349. f. 1. N 1915.
- Bottomley, W. B.** The root-nodules of *Ceanothus americanus*. Ann. Bot. 29: 605-610. pl. 28. O 1915.
- Burrill, A. C.** Insect control important in checking fire blight. Phytopathology 5: 343-347. N 1915.
- Buswell, W. M.** The spotted trumpet leaf. Am. Bot. 21: 81-84. Au 1915. [Illust.]
- Cahn, A. R.** An ecological survey of the Wingra Springs region, near Madison, Wisconsin, with special reference to its ornithology. Wisconsin Nat. Hist. Soc. Bull. 13: 123-177. f. 1-11. S 1915.
- Claassen, E.** *Caloplaca pyracea* (Ach.) Th. Fr., eine Krustenflechte auf den Sandstein-Fussteigen zu East Cleveland, Cuyahoga County, Ohio. Hedwigia 54: 217, 218. 10 F 1914.
- Clute, W. N.** A may-apple with multiple fruits. Am. Bot. 21: 92, 93. Au 1915. [Illust.]
- [Clute, W. N.] The spiders in flower. Am. Bot. 21: 94-96. Au 1915.
- Clute, W. N.** Vine hedges. Am. Bot. 21: 86-88. Au 1915. [Illust.]
- Cockerell, T. D. A.** The marking factor in sunflowers. Jour. Heredity 6: 542-545. f. 5, 6. 26 N 1915.
- Cook, M. T.** Report of the plant pathologist. Ann. Rep. New Jersey Agr. Exp. Sta. 1914: 467-504. 1915.
Includes articles by H. C. Lint, G. W. Martin, and Cook & Martin.
- Cook, M. T., & Wilson, G. W.** The influence of ether on the growth of *Endothia*. Bot. Gaz. 60: 412, 413. 15 N 1915.
- Cook, M. T., & Wilson, G. W.** The influence of the tannin content of the host plant on *Endothia parasitica* and related species. Bot. Gaz. 60: 346-361. 15 N 1915.
- Coville, F. V.** *Grossularia marcescens*. Proc. Biol. Soc. Washington 28: 181. 29 N 1915.
- Earle, F. S., & Popenoe, W.** Plant breeding in Cuba. Jour. Heredity 6: 558-568. f. 10-15. 26 N 1915.
- Garman, P.** Some Porto Rican parasitic fungi. Mycologia 7: 333-340. pl. 171. N 1915.
Includes nine new species in *Septoria* (5), *Dimerium* (3), and *Phyllachora* (1).

- Gates, F. C. Wind burn in *Amorphophallus*. Bot. Gaz. 60: 414. 15 N 1915.
- Gleason, H. A. Botanical sketches from the Asiatic tropics—III. Java. Torreyia 15: 233-244. f. 23-27. 19 N 1915.
- Gortner, R. A., & Blakeslee, A. F. Observations on the toxin of *Rhizopus nigricans*. Am. Jour. Physiology 34: 353-367. 1 J1 1914.
- Greene, F. C. A preliminary list of the ferns of Rolla, Missouri. Am. Fern Jour. 5: 105-107. D 1915.
- Harms, H. Einige neue Arten der Gattung *Inga* Scop. Repert. Sp. Nov. 13: 525-527. 30 Je 1915.
- Harms, H. Zwei neue Arten der Gattung *Prosopis* L. Repert. Sp. Nov. 13: 523, 524. 30 Je 1915.
Seven new species are described.
- Haynes, C. C. *Bucegia*, a new genus for North America. Bryologist 18: 93, 94. f. 1. N 1915.
- Heald, F. D. Preliminary note on leaf invasions by *Bacillus amylovorus*. Washington Agr. Exp. Sta. Bull. 125: 1-7. f. 1-3. S 1915.
- Hedgcock, G. G., & Long, W. H. Two new hosts for *Peridermium pyriforme*. Jour. Agr. Research 5: 289, 290. pl. 27. 15 N 1915.
- Hieronymus, G. Beiträge zur Kenntnis der Gattung *Pteris*.—I. Über *Pteris longifolia* L. und verwandte Arten. Hedwigia 54: 283-294. 20 Mr 1914.
- Hitchcock, A. S. Note on a New Zealand grass. Proc. Biol. Soc. Washington 28: 182. 29 N 1915.
- Hotson, J. W. Fire blight on cherries. Phytopathology 5: 312-316. pl. 14. N 1915.
- Howe, R. H. The genus *Teloschistes* in North America. Bull. Torrey Club 42: 579-583. f. 1, 2. 13 N 1915.
- Jennings, O. E. Systematic and ecological notes on the mosses of western Pennsylvania. Bryologist 18: 83-93. pl. 2. N 1915.
- Koehne, E. Zur Kenntniss von *Prunus* Grex Calycopadus, und Grex Gymnopadus Sect. Laurocerasus. Bot. Jahrb. 52: 279-333. 3 Au 1915.
- Koehne, E. Zwei neue *Amelanchier* aus dem westlichen Nordamerika. Bot. Jahrb. 52: 277, 278. 3 Au 1915.
Amelanchier plurinervis and *A. Purpusii*.
- Kraus, E. J. The self-sterility problem. Jour. Heredity 6: 549-557. f. 7-9. 26 N 1915.

- Lang, W. H.** Plant morphology. *Science* II. **42**: 780-791. 3 D 1915.
- Lantz, C. W.** A bibliography of non-parasitic diseases of plants. Illinois Agr. Exp. Sta. Circ. 183: 80-111. My 1915.
- Lizer, C.** Quelques notes pour servir de complément au recueil de Mr. L. Hauman-Merck sur "Les parasites végétaux des plantes cultivées en Argentine et dans les regions limitrophes." Anal. Soc. Cien. Argentina **78**: 5-17. Au 1914.
- Maza, M. G. de la, & Roig, J. T.** Flora de Cuba (datos para su estudio). Cuba Est. Exp. Agron. Bull. 22: 1-182. pl. 1-33. D 1914.
- Melchers, L. E.** The grouping and terminology of plant diseases. *Phytopathology* **5**: 297-302. N 1915.
- Melhus, I. E.** Germination and infection with the fungus of the late blight of potato (*Phytophthora infestans*). Wisconsin Agr. Exp. Sta. Research Bull. 37: 1-64. f. 1-6. Au 1915.
- Meyer, R.** Über die Formen *brevispina* und *longispina* der *Echinopsis campylacantha* var. *Poselgeri*. Monats. Kakteenk. **25**: 43, 44. Je 1915.
- Moore, E.** The Potamogetons in relation to pond culture. Bur. Fisheries Bull. 33: 251-291. pl. 22-39. 28 J1 1915.
- Moxley, G. E.** *Pellaea Rafaelensis*, sp. nov. Am. Fern Jour. **5**: 107, 108. pl. 8. D 1915.
- Murrill, W. A.** Preliminary list of Upper St. Regis fungi. *Mycologia* **7**: 297-306. pl. 167-169+f. 1-4. N 1915.
- Murrill, W. A.** A visit to the pine barrens. *Torreya* **15**: 247, 248. 19 N 1915.
- O'Gara, P. J.** A *Podosporiella* disease of germinating wheat. *Phytopathology* **5**: 323-326. pl. 15, 16. N 1915.
- Osterhout, W. J. V.** The measurement of toxicity. Jour. Biol. Chemistry **23**: 67-70. f. 1. N 1915.
- Parish, S. B.** The southern California ferns. Am. Fern Jour. **5**: 97-104. D 1915.
- Payson, E.** New and noteworthy plants from southwestern Colorado. Bot. Gaz. **60**: 374-382. 15 N 1915.
Includes ten new species in *Aquilegia* (1), *Cleomella* (1), *Lupinus* (2), *Astragalus* (2), *Psoralea* (1), *Oreocarya* (1), *Pentstemon* (1), and *Helianthella* (1).
- Petch, T.** *Citrus* mildew. *Phytopathology* **5**: 350-352. N 1915.
- Phelps, O. P.** More about the habitat of *Ophioglossum*. Am. Fern. Jour. **5**: 113-115. D 1915.

- Pieters, A. J.** The *ferax* group of the genus *Saprolegnia*. Mycologia 7: 307-314. *pl.* 170. N 1915.
- Pilger, R.** Plantae Uleanae novae vel minus cognitae. Notizbl. Konigl. Bot. Gart. Berlin 6: 311-396. 20 S 1915.
Includes articles by Ule (Vochysiaceae, Dichapetalaceae, Ochnaceae, Melastomataceae); Ulbrich (Malvaceae); Harms (Passifloraceae, Araliaceae); Fr. Kränzlin (Bignoniaceae); and Fritsch (Gesneriaceae).
- Platt, E. L.** The population of the "blanket-algae" of freshwater pools. Am. Nat. 49: 752-762. D 1915. [Illust.]
- Pouysségur, H. B.** Expedición al Iberá. An. Soc. Cien. Argentina 78: 241-258. D 1914; 79: 35-64. F 1915; 135-161. Ap 1915.
- Rand, F. V.** Dissemination of bacterial wilt of cucurbits. Jour. Agr. Research 5: 257-260. *pl.* 24. 8 N 1915.
Preliminary note.
- Reed, E. L.** *Drosera annua* sp. nov. Torreya 15: 246, 247. *f.* 1. 19 N 1915.
- Rees, C. C., & Macfarlane, W.** A bibliography of recent literature concerning plant-disease prevention. Illinois Agr. Exp. Sta. Circ. 183: 2-78. My 1915.
- Roberts, E. A.** The distribution of beach plants. Bot. Gaz. 60: 406-411. 15 N 1915.
- Rolfe, R. A.** *Promenaea microptera*. Curt. Bot. Mag. IV. 11: *pl.* 8631. O 1915.
A plant from tropical South America.
- Rolfe, R. A.** *Sievekingia shephardii*. Curt. Bot. Mag. IV. 11: *pl.* 8635. N 1915.
A plant from Colombia.
- Rosenbaum, J.** Pathogenicity and identity of *Sclerotinia libertiana* and *Sclerotinia smilacina* on ginseng. Jour. Agr. Research 5: 291-298. *pl.* 28, 29+*f.* 1. 15 N 1915.
- Rothe, W.** Über die Gattung *Marsdenia* R. Br. und die Stammpflanze der Condurangorinde. Bot. Jahrb. 52: 354-434. *f.* 1-15. 3 Au 1915.
Includes 8 new species from America.
- Sifton, H. B.** On the occurrence and significance of "bars" or "rims" of Sanio in the cycads. Bot. Gaz. 60: 400-405. *pl.* 15. 15 N 1915.
- Smith, E. H.** *Pythiacystis* infection of deciduous nursery stock. Phytopathology 5: 317-322. *f.* 1-4. N 1915.
- Smith, R. E., & Bonquet, P. A.** Connection of a bacterial organism with curly leaf of the sugar beet. Phytopathology 5: 335-342. *pl.* 17+*f.* 1. N 1915.

- Spegazzini, C.** La verdenasquina nueva variedad de Caucho. An. Soc. Cien. Argentina **78**: 71-73. Au 1915.
- Sprague, T. A.** *Ceanothus rigidus*. Kew Bull. Misc. Inf. **1915**: 379-381. S 1915. [Illust.]
- Standley, P. C.** Hepaticae of New Mexico. Bryologist **18**: 81-83. N 1915.
- Standley, P. C.** A new species of *Iresine* from the United States. Proc. Biol. Soc. Washington **28**: 171-173. 29 N 1915.
Iresine rhizomatosa sp. nov.
- Stewart, A.** The pistillate spikelet in *Zea Mays*. Science II. **42**: 694. 12 N 1915.
- Stewart, V. B.** Mildew on black currants. Phytopathology **5**: 349. N 1915.
- Stewart, V. B.** Notes on the fire blight disease. Phytopathology **5**: 327-334. N 1915.
- Taubenhaus, J. J., & Manns, T. F.** The diseases of the sweet potato and their control. Delaware Agr. Exp. Sta. Bull. 109: 1-55. f. 1-65. My 1915.
- Theissen, F., & Sydow, H.** Die Dothideales. Ann. Myc. **13**: 149-430. pl. 1-6. 31 Au 1915; 431-746. 30 O 1915.
- Thériot, I.** Sur quelques mousses recueillies au Chili par le Prof. Carlos E. Porter. Revist. Chilena Hist. Nat. **19**: 30-37. pl. 7+ f. 5. 1915.
- Tuttle, M. L.** Fern trips in Virginia. Am. Fern Jour. **5**: 108-113. D 1915.
- Ulbrich, E.** Malvaceae novae vel criticae austro-americanae. Repert. Sp. Nov. **13**: 498-518. 30 Je 1915.
- Valleau, W. D.** Varietal resistance of plums to brown-rot. Jour. Agr. Research **5**: 365-396. pl. 37-39. 20 N 1915.
- Vaupel, F.** *Echinocactus Maassii* Heese. Monats. Kakteenk. **25**: 44. Je 1915. [Illust.]
- Vries, H. de.** *Oenothera gigas nanella*, a mendelian mutant. Bot. Gaz. **60**: 337-345. 15 N 1915.
- Williams, R. S.** Mosses of the Philippine and Hawaiian Islands collected by the late John B. Leiberger. Bull. Torrey Club **42**: 571-577. 13 N 1915.
Includes descriptions of four new species.
- Winkler, C. H.** The botany of Texas. Univ. Texas Bull. **18**: 1-27. 25 Mr 1915.